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other materials), softwood distillation, charcoal, boxes, cross ties, poles and piling, posts, mine timbers, fuelwood, shingles, maple syrup and sugar, rubber, dye woods and materials, excelsior, and cork. Numerous well-selected illustrations and an index add to the attractiveness and usefulness of the book.

BARRINGTON MOORE

## PROCEEDINGS OF THE CLUB

NOVEMBER 29, 1919

The meeting was held in the Morphological Laboratory of the New York Botanical Garden at 3.30 P.M. Dr. Marshall A. Howe presided. There were eighteen persons present. The minutes of the previous meetings were read and approved. Mrs. Helen S. Harper, 417 Riverside Drive, and Mr. H. E. Thomas, graduate student, Columbia University, were nominated for membership.

Dr. Howe reported for the editorial board regarding the proposition to publish the Torrey-Schweinitz letters as a memoir of the Club, stating that suitable financial arrangements were being made and the publication of this memoir was assured.

The treasurer announced a contribution of \$100 from Dr. J. H. Barnhart to the Underwood Fund.

Dr. Levine spoke of business connected with the *Bulletin* and moved to authorize the chairman to appoint a committee to investigate the various activities of the Club with special regard to retrenchment along certain lines with a view to improving the *Bulletin*. The chairman appointed Professor Harper, Dr. Britton, Dr. Dodge, Dr. Levine, Mr. Taylor, and Professors Hazen and Broadhurst members of this committee.

The secretary announced the death of Mrs. R. McM. Colfelt, who has in the past generously contributed to the support of TORREYA.

The scientific program was then in order. Dr. A. B. Stout spoke on "Notes on Forced Bulbs." "Dr. Stout made a report of observations on the behavior of bulbous plants which have been forced. In the winter of 1916-1917 about 100 bulbs of *Narcissus*

*Fazetta* were grown in pots and brought into bloom in a greenhouse. In the two seasons of growth since then these plants have produced no flowers. They have, however, made a vigorous and healthy vegetative growth showing clearly that they are not 'run down' plants. Examination of the bulbs shows that there is no blasting due to death of terminal growing points. Further studies will be made to determine if forcing induces a more or less permanent vegetative growth or whether a new bulb of this species naturally requires several years of vegetative growth before a flower stalk is produced. Wild plants of this species obtained from Japan and which have been grown at the New York Botanical Garden for two years have failed to produce flowers. Living plants of the various cultures were exhibited."

Dr. W. A. Murrill gave a paper on "Collecting Fungi near Washington," an abstract of which follows:

"The first two weeks in October were spent in the vicinity of Washington, with excursions to Falls Church, Fairfax Court House, Great Falls, and Mount Vernon in Virginia; and to Baltimore, Reisterstown, and Easton in Maryland. Dr. Howard A. Kelly collected with me one afternoon near Falls Church, securing several specimens of fleshy fungi which he took home and had photographed or painted.

"I went with a party of friends over some of the golf links in the suburbs of Washington and found the common field mushroom, the field puffball, the fairy ring mushroom, and a peculiar large form of *Collybia radicata* which grew only under maple trees. All of these were eaten and enjoyed.

"*Clitocybe illudens* was abundant in oak woods, particularly fine clusters being observed west of Falls Church and near the boat landing at Mount Vernon.

"The journey to Easton, located on the eastern shore of Maryland over eighty miles from Washington, was especially interesting because Miss Mary E. Banning, a pioneer mycologist of Maryland was born in Talbot County. Dr. Kelly is preparing an account of her life and work. Her book of manuscript and drawings is at Albany having been donated by her to the State Museum about thirty years ago. A list of the species she col-

lected, comprising fourteen that were new, was published by Dr. Peck in his 44th annual report.

"A day and night were spent at the home of Dr. Kelly in Baltimore, where Mr. L. C. C. Krieger, a botanical artist of great ability, is busily engaged in preparing illustrations of the fleshy fungi."

Adjournment followed.

B. O. DODGE,  
*Secretary*

DECEMBER 9, 1919

The meeting was held at the American Museum of Natural History at 8.15 P.M. President Richards presided. There were 35 persons present.

The usual business was dispensed with. The Scientific program consisted of an illustrated lecture on "The Uses of Fungi and Bacteria in Industry" by Dr. E. W. Olive, Brooklyn Botanical Garden. A discussion followed the lecture, after which the meeting adjourned.

B. O. DODGE,  
*Secretary*

JANUARY 13, 1920

The annual meeting of the club was held at the American Museum of Natural History at 8.15 P.M. President Richards presided. There were fifteen persons present.

The minutes of the meetings held November 29 and December 9 were approved.

Mr. Alexander Gershoy, Assistant in Botany, Columbia University, was nominated for membership.

A letter of resignation from Rev. L. H. Lighthipe was read and accepted. In recognition of his thirty-four years of faithful service in the Club, it was voted to transfer his name to the list of corresponding members.

Professor R. A. Harper, chairman of the Committee on Retrenchment, read the following report prepared by Professor T. E. Hazen, secretary of the committee. (See report appended.)

The recommendations of the committee were adopted with the additional provision that the committee be continued as a Committee on New Members.

A letter from The New Era Printing Company containing a schedule of new prices for the publication of the *Bulletin* was read by the Treasurer.

Annual Reports of the officers were then in order.

The Secretary reported that fourteen regular meetings and one special meeting had been held during the year at which the combined attendance was 414. Six illustrated lectures were given, at which the combined attendance was 211. Fifteen new members were elected during the year, six resignations had been accepted, and seven members had been dropped from the mailing list for non-payment of dues. This report was accepted and placed on file. The treasurer's report was read and referred to an auditing committee, to which the chairman appointed Dr. Barnhart and Dr. Howe.

The report of the editor, Professor A. W. Evans, was read by Dr. Howe. This report showed that the Bulletin for 1919 contained 500 pages, 19 plates and 46 text figures. The articles published embraced the following subjects: Ecology and Plant Geography, 2; Morphology and Taxonomy of Algae, 2; Fungi, 4; Bryophytes, 4; Vascular Plants, 8; Paleobotany, 1; Pathology, 1; Physiology, 2; Taxonomy of Vascular Plants, 8; total, 33. The report was accepted and placed on file.

Mr. Norman Taylor, editor of *TORREYA*, Dr. M. A. Howe, delegate to the council of the New York Academy of Sciences, Dr. M. Levine, business manager of advertisements and circulation, gave brief reports.

Professor H. M. Richards in his report as president of the Club commented on the various activities of the Club and made several constructive suggestions regarding the possibilities of securing a larger membership and a more extensive financial support.

Professor R. A. Harper, chairman of the Finance Committee, gave a brief report on the financial standing of the Club.

Dr. F. W. Pennell, chairman of the Field Committee, read a report, which was accepted and placed on file.

Dr. F. J. Seaver reported for the Program Committee, and Dr. Howe announced that Professor Setchell had consented to lecture before the Club in the near future.

Mr. Alexander Gershoy was then elected to membership.  
The election of officers resulted as follows:

*President*, H. M. Richards.

*Vice-Presidents*, John Hendley Barnhart,  
C. Stuart Gager.

*Secretary and Treasurer*, Bernard O. Dodge.

*Editor*, Alex. W. Evans.

*Associate Editors*,

Jean Broadhurst,	Michael Levine,
J. Arthur Harris,	Arlow B. Stout,
Marshall A. Howe,	George E. Nichols,
Norman Taylor.	

*Delegate to the Council of the New York Academy of Sciences*,  
J. H. Barnhart.

Dr. M. Levine was reelected Business Editor of Advertisements and Circulation.

The president appointed the following standing committees for 1920:

*Finance*: Prof. R. A. Harper, chairman, Dr. J. H. Barnhart, Miss C. C. Haynes and Mr. H. B. Douglas.

*Budget*: Dr. J. H. Barnhart, chairman, Prof. R. A. Harper, Dr. N. L. Britton, Prof. A. W. Evans, Dr. M. A. Howe and Prof. H. H. Rusby.

*Field*: Dr. F. W. Pennell, chairman, Mrs. L. M. Keeler, Mr. G. T. Hastings, Dr. F. J. Seaver, Mr. Norman Taylor, Dr. Michael Levine and Mr. Percy Wilson.

*Program*: Mrs. E. G. Britton, chairman, Dr. Jean Broadhurst, Dr. Alfred Gundersen and Dr. F. Seaver,

*Membership*: Dr. J. K. Small, chairman, Dr. T. E. Hazen and Dr. E. W. Olive.

The meeting adjourned at 10 P.M.

B. O. DODGE,  
*Secretary*.

JANUARY 28, 1920

A meeting of the Club was held at The New York Botanical Garden at 3.30 P.M. President Richards presided. There were about twenty persons present.

The minutes of the annual meeting held January 13 were read and adopted.

Dr. Howe reported that the Auditing Committee had examined the books of Dr. B. O. Dodge, Treasurer, and found them to be correct.

Dr. B. O. Dodge, for the past nine years secretary and treasurer of the Club, because of his entrance upon scientific work in Washington, D. C., tendered his resignation from both offices. This was reluctantly accepted. The President appointed a committee of five, Drs. Harper, Howe, Barnhart, Rusby, and Richards, the last *ex-officio*, to consider the problem of the handling of the duties of these offices and to select a successor or successors. Awaiting the result of their action, Dr. F. W. Pennell was appointed temporary secretary and treasurer.

Mr. William C. Ferguson, Hempstead, L. I., was nominated and elected to membership.

The resignation of Dr. T. W. J. Burgess was accepted. That of Dr. O. E. White was referred to the Membership Committee.

The scientific program consisted of a joint discussion by Drs. Britton and Small on "Recent Explorations in Southern Florida."

Dr. Small gave an outline of the expedition of Dr. and Mrs. Britton and himself during late November and December of 1919 to southern Florida, telling of work around Miami and in the Everglades, and showing an extensive collection of remarkable plants seen. Among these were several species considered new to science, a *Monotropa* with ochroleucous flowers, an *Opuntia* and a *Houstonia*.

Dr. Britton spoke of his interest in comparing the flora of southern Florida with that familiar to him in the West Indies, especially in the Bahamas. Interesting evidence in the discovery of a considerable and deep limestone cave now sunk below sea-level but yet containing large stalagmites and stalactites, was discovered, showing the recent subsidence of the Everglade district.

Photographs were shown depicting a remarkably complete natural graft of the pigeon-plum.

Another purpose of the trip—that in which Mrs. Britton was particularly interested—was the collection of the lichen-flora.

The meeting adjourned.

FRANCIS W. PENNELL,  
*Secretary.*

FEBRUARY 10, 1920

The first meeting in February was held at the American Museum of Natural History.

President Richards called the meeting to order at 8.30 P.M. There were 28 persons present.

No business was transacted.

Dr. F. W. Pennell gave an illustrated lecture on "Through the Andes of Colombia."

A brief account was given of the speaker's eight months' sojourn in Colombia in 1917-18, of the extent of exploration undertaken and of the collections made. Each of the three cordilleras of the Andes was ascended from the tropical lowland to the paramo above timber-line. Emphasis was laid upon the sharp delimitation of altitudinal zones of vegetation, and the views shown were largely of species characteristic of each.

FRANCIS W. PENNELL,  
*Secretary.*